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Amendments to the Claims:

- 1. (Currently Amended) A computer implemented method for optimizing a schedule of legs employed by at least one service provider in transporting objects between geographic markets, the method comprising the steps of:
 - a) identifying a set of itineraries for serving each market in a set of markets, each itinerary comprising one or more legs;
 - b) generating a set of market plans for each of a plurality of markets, wherein the set of market plans for each market comprises a plurality of market plans with each market plan comprising a modified set of the itineraries for the market;
 - c) individually determining the profitability of each market plan for each market following generation of new set of market plans for each of the plurality of markets; and
 - d) selecting from the set of market plans for each market a subset optimizing overall profit of the schedule while accounting for resources of a service provider, wherein the subset of market plans is selected following a determination of the profitability of each market plan for each market.

wherein at least one of the identifying, generating, determining and selecting steps is performed by a computer processor.

- 2. (Original) The method of claim l, wherein the generating step includes the substeps of:
 - a) changing a status parameter of one of the itineraries in the set of itineraries while leaving the status parameters for the remaining itineraries unchanged; and
 - b) repeating said changing step for each itinerary in the set.
- 3. (Original) The method of claim 1, wherein market plans are generated utilizing itineraries including at least one leg from a specified service provider.

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- 4. (Original) The method of claim 1, wherein the determining step employs a profitability model.
- 5. (Original) The method of claim 1, wherein the selecting step employs a mixed integer program to select the subset of market plans to maximize overall profit of the schedule.
- 6. (Original) The method of claim l, further including the step of evaluating a termination condition to determine whether additional market plans will be generated using the subset of market plans.
- 7. (Original) The method of claim 1, wherein the identifying step includes the substep of generating the set of itineraries based on at least scheduled legs and automatically-generated hypothetical legs of a specified service provider.
- 8. (Previously presented) A system including one or more computers executing applications for optimizing a schedule of legs employed by at least one service provider in transporting objects between geographic markets, the system comprising:
 - a) a component configured to identify a set of itineraries for serving each market in a set of markets, each itinerary comprising one or more legs;
 - b) a component configured to generate a set of market plans for each of a plurality of markets, wherein the set of market plans for each market comprises a plurality of market plans with each market plan comprising a modified set of the itineraries for the market;
 - c) a profitability model configured to individually determine the profitability of each market plan for each market following generation of new set of market plans for each of the plurality of markets; and
 - a mixed integer program configured to select from the set of market plans for each market a subset optimizing overall profit of the schedule while accounting for

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resources of a service provider, wherein the subset of market plans is selected following a determination of the profitability of each market plan for each market.

- 9. (Original) The system of claim 8, wherein the component configured to generate a set of market plans is further configured to:
 - a) change a status parameter of one of the itineraries in the set of itineraries while leaving the status parameters for the remaining itineraries unchanged; and
 - b) repeat said changing step for each itinerary in the set.
- 10. (Original) The system of claim 8, wherein market plans are generated utilizing itineraries including at least one leg from a specified service provider.
- 11. (Previously presented) A computer program product having computer readable instructions embodied in a computer-readable medium for programming a computer to optimize a schedule of legs employed by at least one service provider in transporting objects between geographic markets, by performing the steps of:
 - a) identifying a set of itineraries for serving each market in a set of markets, each itinerary comprising one or more legs;
 - b) generating a set of market plans for each of a plurality of markets, wherein the set of market plans for each market comprises a plurality of market plans with each market plan comprising a modified set of the itineraries for the market;
 - c) individually determining the profitability of each market plan for each market following generation of new set of market plans for each of the plurality of markets; and
 - d) selecting from the set of market plans for each market a subset optimizing overall profit of the schedule while accounting for resources of a service provider, wherein the subset of market places is selected following a determination of the profitability of each market plan for each market.

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- 12. (Original) The computer program product of claim 11, wherein the generating step includes the substeps of:
 - a) changing a status parameter of one of the itineraries in the set of itineraries while leaving the status parameters for the remaining itineraries unchanged; and
 - b) repeating said changing step for each itinerary in the set.
- 13. (Original) The computer program product of claim 11, wherein market plans are generated utilizing itineraries including at least one leg from a specified service provider.
- 14. (Original) The computer program product of claim 11, wherein the determining step employs a profitability model.
- 15. (Original) The computer program product of claim 11, wherein the selecting step employs a mixed integer program to select the subset of market plans to maximize overall profit of the schedule.
- 16. (Original) The computer program product of claim 11, further including the step of evaluating a termination condition to determine whether additional market plans will be generated using the subset of market plans.
- 17. (Original) The computer program product of claim 11, wherein the identifying step includes the substep of generating the set of itineraries based on at least scheduled legs and automatically-generated hypothetical legs of a specified service provider.